## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A gas sensor which works to measure a given component content in a gas and has a length with a top and a base end opposed to the top end, comprising:

a cylindrical housing;

a sensing element disposed in said housing, said sensing element having a length which includes a top portion facing the top end of the gas sensor, sensitive to the gas and a base portion facing the base end of the gas sensor; and

a cylindrical cover assembly installed on said housing to cover the top portion of said sensing element, said cover assembly having a length with a top end facing the top end of the gas sensor and a base end facing the base end of the gas sensor, said cover assembly including a first cover and a second cover retained outside the first cover, the first and second covers having side walls, respectively, the side wall of the second cover having formed therein a plurality of gas holes through which the gas flows inside or outside said cover assembly, at least one of the gas holes partially facing the side wall of the first cover in a lateral direction perpendicular to a longitudinal direction of said cover assembly, the at least one of the gas holes having a first portion of a perimeter closest to the top end of said cover assembly and a second portion of the perimeter closest to the base end of said cover assembly, the first cover having a top end which faces the top end of said cover assembly and is located within a range defined between the first and second portions of the perimeter of the at least one of the gas holes in the longitudinal direction of said cover assembly, wherein the side wall of the first cover has formed therein a plurality of gas holes through which the gas flows inside or outside the first cover, all side wall gas holes of the first cover being located closer to the base end of said cover assembly than all gas holes of the second cover.

YAMADA, K. et al. Appl. No. 10/759,175 July 30, 2007

Claim 2. (Canceled).

- 3. (Original) A gas sensor as set forth in claim 1, wherein the first cover has a top end facing the top end of said cover assembly and a base end facing the base end of said cover assembly, and wherein a distance L1 between the first portion of the perimeter of the at least one of the gas holes of the second cover and the top end of the first cover and a diameter R of the at least one of the gas holes between the first and second portions of the perimeter thereof meets a condition of  $L1 \leq 0.95R$ .
- 4. (Original) A gas sensor as set forth in claim 1, wherein the second cover has a top end defining the top end of said cover assembly and a base end defining the base end of said cover assembly, and wherein a distance L2 between the top end of the first cover and the top end of the second cover meets a relation of  $0.5 \text{mm} \le L2 \le 10 \text{mm}$ .
- 5. (Currently amended) A gas sensor as set forth in claim 1, wherein-odd-ones of the gas holes formed in the side wall of the second cover partially face the side wall of the first cover in the lateral direction of said cover assembly.
- 6. (Original) A gas sensor as set forth in claim 1, wherein the first cover has a gas hole formed in the side wall thereof, and wherein an outer diameter D1 of the first cover at the top end thereof and an outer diameter D2 at a portion of a perimeter of the gas hole of the first cover closest to the top end of the first cover meet a relation of D1 < D2.
- 7. (Original) A gas sensor as set forth in claim 6, wherein the side wall of the first cover has a wall portion tapering off to the top end of the first cover between the portion of the perimeter of the gas hole closest to the top end of the first cover and the top end of the first cover.

YAMADA, K. et al. Appl. No. 10/759,175 July 30, 2007

- 8. (Currently amended) A gas sensor as set forth in claim 6, wherein the side wall of the first cover has a first wall portion and a second-wall-side\_side wall located closer to the top end of the first cover than the first wall portion, the first wall portion tapering off toward the top end of the first cover, the second wall portion extending straight to the top end of the first cover and having a diameter that is uniform over a length thereof.
- 9. (Original) A gas sensor as set forth in claim 1, wherein the first cover has a gas hole formed in the side wall thereof, and wherein the side walls of the first and second covers have portions continuing to the base ends thereof which are in contact with each other, a distance *L3* between a portion of the gas hole of the first cover closest to the base end of the first cover and a portion of a contact between the side walls of the first and second covers closest to the top end of the first cover being less than or equal to 5mm.
- 10. (Currently amended) A gas sensor as set forth in claim 2, wherein said sensing element includes at least one solid electrolyte body and a pair of electrodes disposed on the solid electrolyte body, and wherein one of the electrodes closer to the base end of the gas sensor has a portion closest to the based base end of the gas sensor, at least one of the gas holes of the first and second covers disposed closest to the base end of the gas sensor having a first portion of a perimeter thereof closest to the top end of the gas sensor, the first portion of the gas hole closest to the top end of the gas sensor being located closer to the top end of the gas sensor than the portion a base end of the electrode of said pair that is closest to the base end of the gas sensor.
- 11. (New) A gas sensor as set forth in claim 1, wherein each of the first and second covers has an end wall defining the top end of said cover assembly, the end wall of each of the first and second covers having a gas hole formed therein.